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PRC

SCREENING SITE INSPECTION REPORT
FOR
BOHATY DRUM SITE
MEDINA COUNTY, OHIO

U.S. EPA ID No. OHD 987 033 743

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Site Assessment Section
77 West Jackson Boulevard
Chicago, IL 60604

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This screening site inspection report is and predecisional in nature. Information contained in this report may not be released without the approval of the U.S. Environmental Protection Agency Region 5 Site Assessment Section.

-6592-

CONTENTS

CONTENTS (Continued)

FIGURES

TABLES

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), was tasked by the U.S. Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) at the Bohaty Drum (BD) site (latitude 41°09'32" N and longitude 81°51'41" W) under Contract No. 68-W8-0084, Work Assignment No. 29-5JZZ.

The primary objective of an SSI is to determine whether a site has the potential to be placed on the National Priorities List (NPL). The NPL identifies sites where releases or threatened releases of hazardous substances pose a risk to public health or the environment serious enough to warrant further investigation and possible remediation under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Information gathered during the SSI is used to generate a preliminary Hazard Ranking System (HRS) score. The HRS is the primary mechanism used by U.S. EPA to determine whether a site should be placed on the NPL (U.S. EPA 1990). The SSI is usually the first investigation performed to collect and analyze environmental samples in order to support HRS scoring. Sampling locations are strategically chosen to identify hazardous substances present, determine whether contaminants are being released to the environment, and determine whether targets have been exposed to site-related contaminants.

Specifically, the objectives of the SSI are as follows:

- Collect data to evaluate the site using the HRS
- Screen out the site if it is not eligible for the NPL based on its HRS score
- Collect samples to establish representative background contaminant levels
- Document current site conditions
- Assess the need for emergency response actions

After the SSI report for a site is finalized, U.S. EPA, in consultation with state authorities, will determine whether the site should be designated for "no further action" (NFA) or should undergo further investigation. The NFA designation means that no additional investigations will be conducted based on information available at the time of the designation. However, if new site information is brought to U.S. EPA's attention, the site may be re-evaluated. For a site warranting further investigation under CERCLA and SARA authority, an expanded site inspection will be conducted to collect additional data, or an HRS package will be prepared if existing data is sufficient to support an HRS score of 28.50 or greater for the site.

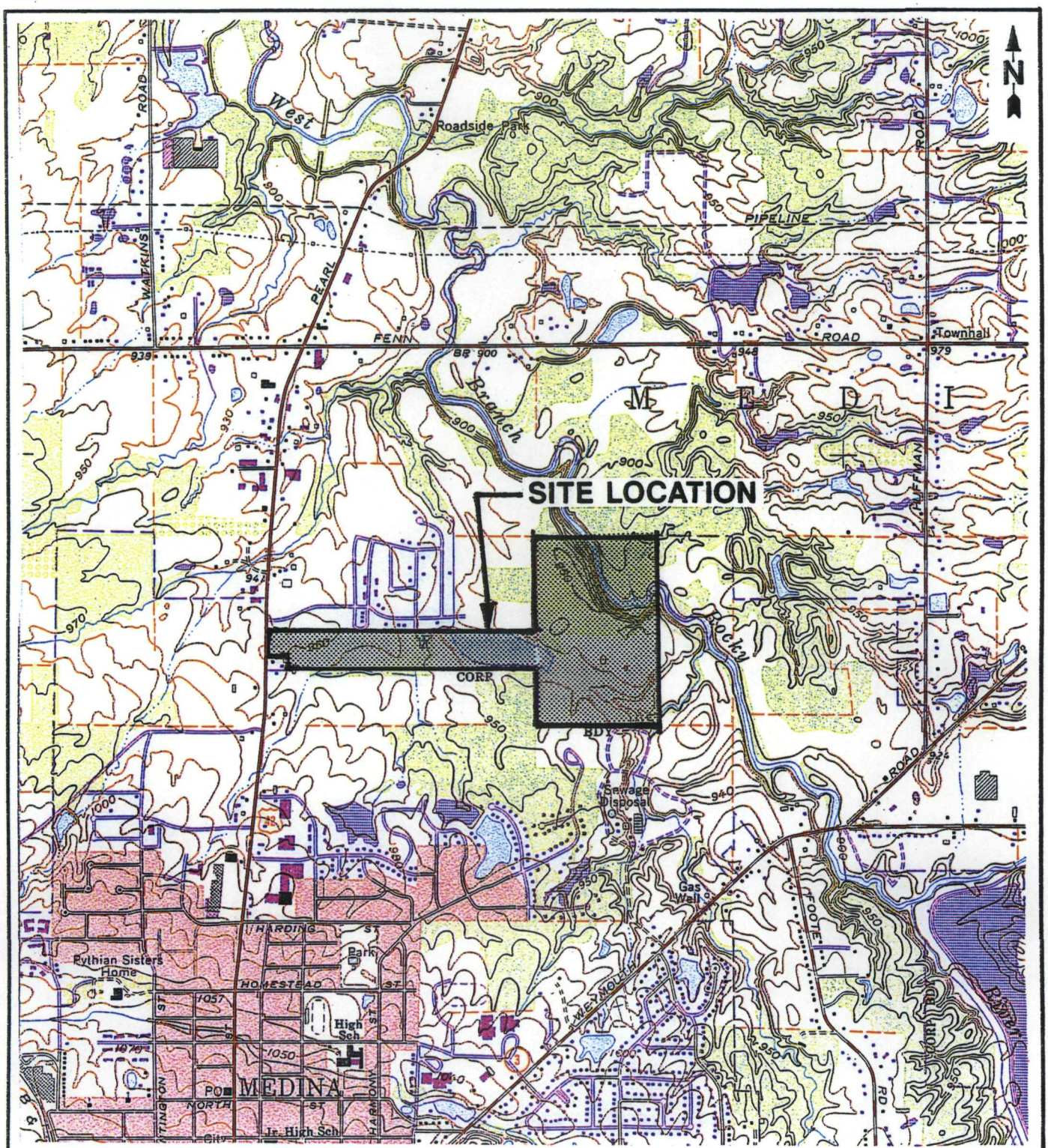
This report documents the results of an SSI conducted at the BD site in Medina County, Ohio. PRC first gathered and reviewed information from the Ohio Environmental Protection Agency (OEPA) and from U.S. EPA Region 5 CERCLA files. PRC then performed a reconnaissance of the BD site on December 14, 1993. The reconnaissance included an interview with the site representative and a walk-through inspection of the site. Based on information obtained during the site reconnaissance, PRC prepared a site-specific implementation plan (SSIP) and submitted the plan to U.S. EPA for approval. U.S. EPA approved the SSIP on May 26, 1994. During the SSI on May 31, 1994, PRC collected six sediment samples.

2.0 SITE BACKGROUND

This section discusses the BD site description, operations, and regulatory and release history.

2.1 SITE DESCRIPTION

The BD site is located at 4271 Pearl Road in Medina County, Ohio, about 0.75 mile north of the city of Medina (see Figure 1). The 150-acre site is operated and partially owned by Ethel Bohaty and John Bohaty. A site layout map is presented in Figure 2. A vacant home and various sheds are located along Pearl Road near the site. A 14-acre, manmade pond and undeveloped land are located on site east of the home and sheds. Most of the undeveloped portion of the site is covered with woods or dense brush. Site access is restricted by a fence only along Pearl Road.



SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'

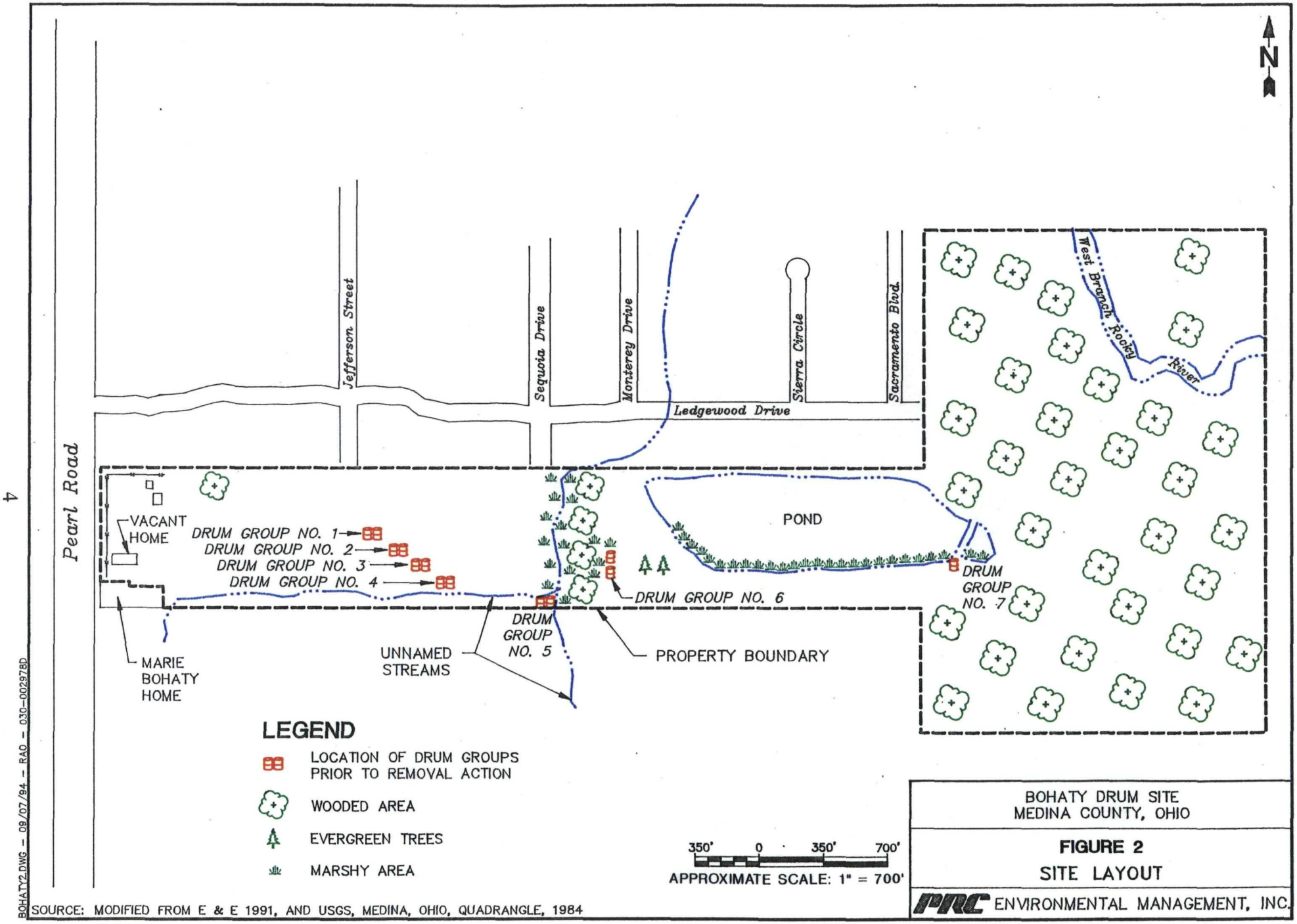
QUADRANGLE LOCATION

SOURCE: MODIFIED FROM USGS, MEDINA, OHIO, QUADRANGLE, 1984c

BOHATY DRUM SITE
MEDINA COUNTY, OHIO

FIGURE 1
SITE LOCATION

PRC ENVIRONMENTAL MANAGEMENT, INC.


N
Pearl Road
Jefferson Street
Sequoia Drive
Monterey Drive
Sierra Circle
Sacramento Blvd.
Ledgewood Drive
West Branch Rocky River
VACANT HOME
DRUM GROUP NO. 1
DRUM GROUP NO. 2
DRUM GROUP NO. 3
DRUM GROUP NO. 4
POND
DRUM GROUP NO. 6
DRUM GROUP NO. 7
DRUM GROUP NO. 5
UNNAMED STREAMS
PROPERTY BOUNDARY
MARIE BOHATY HOME
LEGEND
LOCATION OF DRUM GROUPS PRIOR TO REMOVAL ACTION
WOODED AREA
EVERGREEN TREES
MARSHY AREA
350' 0 350' 700'
APPROXIMATE SCALE: 1" = 700'
SOURCE: MODIFIED FROM E & E 1991, AND USGS, MEDINA, OHIO, QUADRANGLE, 1984
BOHATY DRUM SITE
MEDINA COUNTY, OHIO
FIGURE 2
SITE LAYOUT
PRC ENVIRONMENTAL MANAGEMENT, INC.
BOHATY2.DWG -- 09/07/94 -- RAO -- 030-002978D

Portions of the northern perimeter of the site are bordered by a dilapidated wire fence. A "No Trespassing, Violators will be Prosecuted" sign is posted at the northern border of the site near Jefferson Street.

The Bohaty family has not lived in the vacant home on site for about 20 years. Marie Bohaty, John Bohaty's grandmother, resides in a home located next to the southwestern corner of the site for about 6 months of the year. John Bohaty's grandfather built a road on the property from this home to the pond, where a cottage was previously located just north of the evergreen trees. Drums may have been dumped from this roadway before or when the road led to the inactive Medina Landfill, which is next to the southeastern portion of the property. Based on historical aerial photographs, the road led to the landfill.

The site topography is gently rolling with a slight depression to the northeast (U.S. EPA 1993). The site is bordered by the Stonegate housing development, commercial businesses, and the West Branch Rocky River to the north; wooded land to the east; commercial businesses, a new construction project for the 340-unit Forest Meadow Apartments complex, and the inactive Medina Landfill to the south; and Pearl Road to the west.

Surface hydrology on site consists of an unnamed stream flowing north parallel to an on-site municipal sewer line that runs along Sequoia Drive. The stream flows north through the backyards of residences north of the site and ultimately flows into the West Branch Rocky River about 1 mile downstream (USGS 1984a). The stream is formed by two unnamed streams originating off site. One stream crosses the southern border of the site about 250 feet east of Pearl Road and turns sharply eastward until it converges with the unnamed stream about 700 feet south of Sequoia Drive near the southern border of the site (see Figure 2) (Roy F. Weston, Inc. 1992). These streams flow intermittently (USGS 1984a).

The municipal sewer line passes through the site at Sequoia Drive. In 1989, the City of Medina expressed an interest in building a 2.5-lane road through the site to connect Pearl Road and Route 3 (OEPA 1989b).

Wal-Mart property is located north of the BD site on the northern side of Ledgewood Drive. Three monitoring wells were installed on the Wal-Mart property near Ledgewood Drive and Jefferson Street. According to cross section drawings of these wells, the depth to bedrock is 25 to 35 feet below ground surface (bgs) (OEPA 1993b).

2.2 SITE OPERATIONS

Currently, the Bohatys operate a farm equipment repair and sales business on site. This equipment is stored in sheds and on bare soil throughout the westernmost 3 acres of the site. Between 1963 and the early 1980s, drums containing various industrial wastes were disposed of on site. The Bohaty site may have operated as an unlicensed, open dumping area (OEPA 1992a and 1992b). According to Ethel Bohaty, some of the on-site drums may have come from the Medina Landfill, which has been closed since the early 1980s. An OEPA field report states that wastewater treatment sludges from the City of Medina were formerly placed on site (OEPA 1992a). However, no further information regarding this disposal practice is available. In the 1920s, the site was used as a farm. The northern and western areas around the on-site pond were used for agricultural purposes (Roy F. Weston, Inc. 1992).

2.3 REGULATORY AND RELEASE HISTORY

The BD site was discovered in March 1987 after the Medina Township Fire Department (MTFD) discovered several 55-gallon drums on the property while fighting a grass fire on site. MTFD notified OEPA of the drums discovered on site. As a result, OEPA performed several site investigations and determined the presence of about 300 drums on site. In 1989, OEPA collected a sample from a single drum. The sample was analyzed for metals and was determined to be nonhazardous; therefore, further investigation was postponed (E&E 1991). On August 17, 1989, OEPA reinspected the BD site and interviewed MTFD personnel. OEPA found about 300 abandoned drums in poor condition containing petroleum sludge, trichloroethene, paint waste, laboratory-packed chemicals, chrome waste, diisocyanate, and tetrahydrofuran. Air monitoring of the drums indicated levels of organic vapors above background levels (U.S. EPA 1992 and 1993; OEPA 1989a). This investigation also revealed old, rusted farm machinery and about 200 old tires on site (OEPA 1989a).

In mid-1991, residents near the BD site complained to OEPA about an unidentified substance in one of the unnamed streams flowing through the Bohaty property (HUD 1992). OEPA also received numerous complaints regarding the drums scattered throughout the property. On September 16, 1991, OEPA requested that U.S. EPA investigate the BD site (OEPA 1991). On October 8, 1991, the U.S. EPA on-scene coordinator (OSC) and technical assistance team (TAT) conducted a site investigation in response to OEPA's request for assistance.

During the U.S. EPA investigation, about 400 deteriorated drums were identified on site. Numerous drums had spilled their contents onto the surrounding soil. The drums were discovered in seven groups in the south-central portion of the property. Drum Groups No. 5 and 6, which contained laboratory-packed chemicals, sludges, pesticides, and herbicides, were discovered in the central marshy area through which the intermittent stream passes (U.S. EPA 1993). Drum Groups No. 1 through 4, which contained paint waste and other industrial wastes, were located about 600 feet south of Jefferson Street. Drum Group No. 7 consisted of one drum located along the southeastern shore of the on-site pond (E&E 1991).

U.S. EPA subsequently conducted a drum removal and site cleanup. The removal action took place between January 15 and May 7, 1992. In addition to the drums previously identified, geophysical surveys of the on-site pond revealed the presence of an empty barrel that had been used for burning trash and miscellaneous metal scrap. Drums removed from the BD site contained oils, resins, solvents, polychlorinated biphenyls (PCB), pesticides, and other materials (OEPA 1992a). A total of 1,000 drums were recovered from the BD site. Drum contents considered to be hazardous waste were consolidated into 309 drums. About 700 empty drums were crushed and shipped off site for disposal (U.S. EPA 1993). Soils around the drums were excavated and taken off site for disposal (HUD 1992).

During the removal action, samples were collected in the marshy area in the central portion of the site where drums had been discovered during the October 8, 1991, investigation. The samples revealed that the drums had no effect on the quality of the surface water.

Postcleanup sampling activities included collecting soil samples immediately east of the marshy area where drums containing PCB-contaminated laboratory-packed wastes were removed. These samples

were analyzed for PCBs only and no PCB concentrations over the detection limit of 1 part per million (ppm) were discovered in the samples (U.S. EPA 1993). In April 1992, surface water and sediment sampling activities were conducted. The on-site pond was sampled, and the unnamed streams were sampled upstream and downstream of the site. Sediment samples from the on-site pond revealed the presence of butanone and di-n-butylphthalate. Analytical results for the samples from the unnamed streams revealed no concentrations of contaminants above background levels. Attachment A provides a surface water and sediment sampling location map for this investigation (Roy F. Weston, Inc. 1992).

On May 14, 1992, OEPA conducted a soil sampling investigation at the site. This investigation revealed cadmium, chromium, lead, mercury, and zinc at concentrations above background levels on site (BETZ Analytical Services 1992; Logan and Miller 1983; OEPA 1993a). Attachment B provides a soil sampling location map for this investigation.

On August 14, 1992, OEPA prepared a preliminary assessment (PA) for the BD site. Based on various assumptions, including the number of groundwater targets within 4 miles of the site and an extended area of soil contamination, the BD site scored above 28.50 in the PA. Subsequently, the site was recommended as a candidate for a focused site inspection to investigate suspected releases (OEPA 1992b).

3.0 SSI ACTIVITIES

This section describes site reconnaissance observations and identifies sampling locations and procedures used at the BD site. The rationale for specific SSI activities is also provided. The SSI was conducted in accordance with the U.S. EPA-approved SSIP dated May 13, 1994, and the U.S. EPA-approved generic quality assurance project plan (QAPjP) dated October 7, 1991. The U.S. EPA Potential Hazardous Waste Site—Site Inspection Report form (Form 2070-13) for the BD site is provided in Appendix A. Photographs taken by PRC during sampling activities are included in Appendix B.

3.1 SITE RECONNAISSANCE

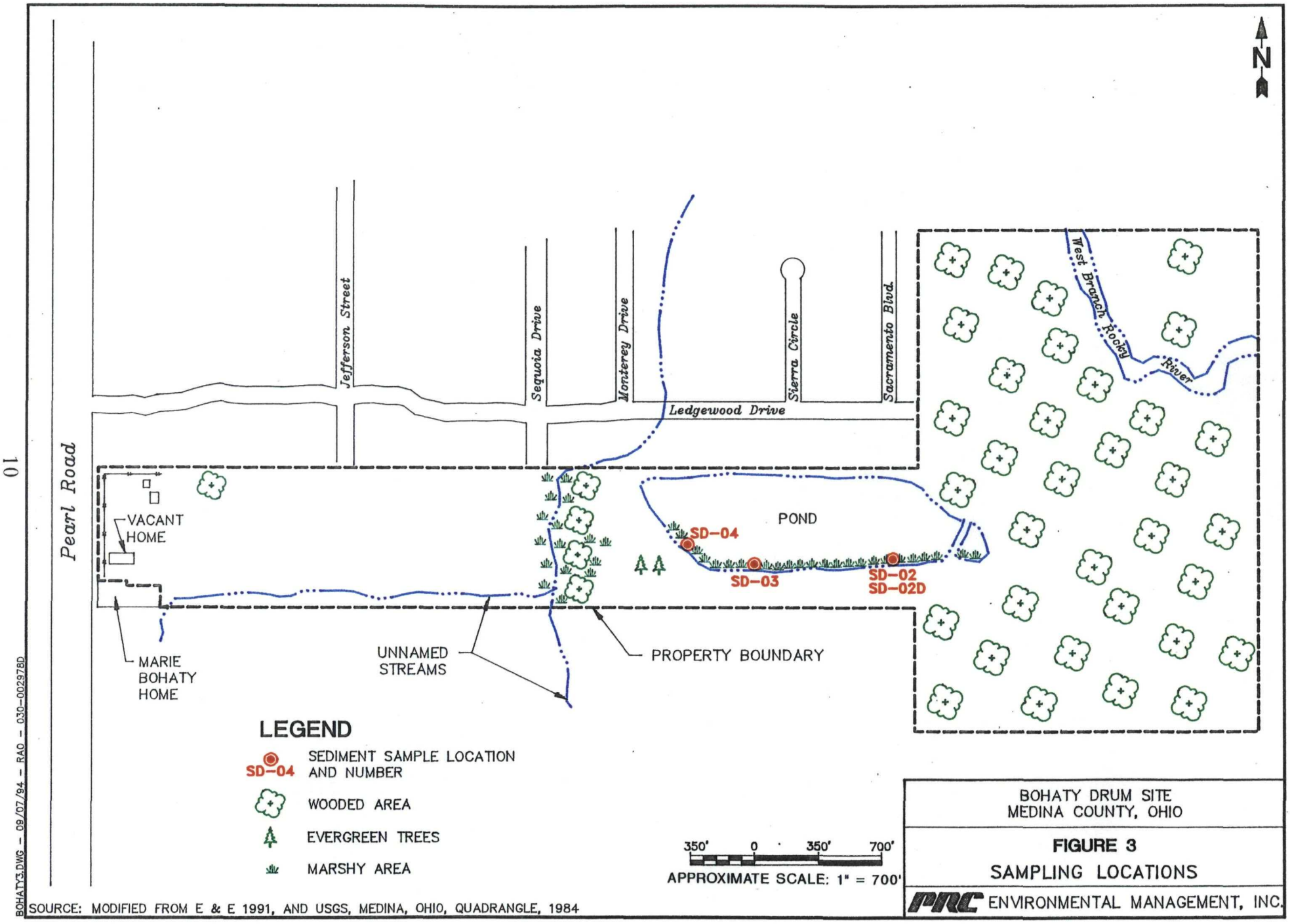
PRC conducted a site reconnaissance at the BD site on December 14, 1993. During the reconnaissance, PRC personnel were accompanied by current site operators, partial site owners Ethel and John Bohaty, and two OEPA representatives. The site reconnaissance consisted of an interview with Ethel and John Bohaty and a visual inspection of the site. The inspection was performed to determine appropriate health and safety requirements for potential on-site sampling activities, evaluate the need for immediate removal actions, identify potential sampling locations, and evaluate nearby targets. Information presented in this section is based on the interview and inspection unless otherwise noted.

During the visual inspection, the PRC field team observed the former locations of the on-site drums, the pond, and other areas of the site. The BD site is covered with dense brush and wooded areas. No drums were observed on site. PRC noted that in places, the backyards of homes adjacent to the northern border of the site extend onto the site and abut the on-site pond. One resident has installed playground equipment and a picnic table along the shore of the on-site pond. Another resident has installed a wooden bridge across the unnamed stream to the site. Cattails were observed along the southern border of the pond.

Soil sampling locations from the OEPA May 14, 1992, investigation were also observed. Miscellaneous scrap metal was present near the location where OEPA Sample 1 was collected. OEPA Sample 3 was collected in the marshy area near the confluence of the two on-site streams. The location of the on-site sewer line was observed near the location where Sample 3 was collected. At the request of Ethel Bohaty, the field team did not investigate the area of the site adjacent to and immediately east of the house on Pearl Road.

3.2 SAMPLING LOCATIONS AND PROCEDURES

On May 31, 1994, PRC collected six sediment samples including one duplicate sediment sample. The on-site sampling locations are presented in Figure 3 and background sampling locations are shown in Figure 4. Table 1 summarizes the samples collected. Sampling locations were selected and collection procedures were used in accordance with the U.S. EPA-approved SSIP and generic QAPjP as well as



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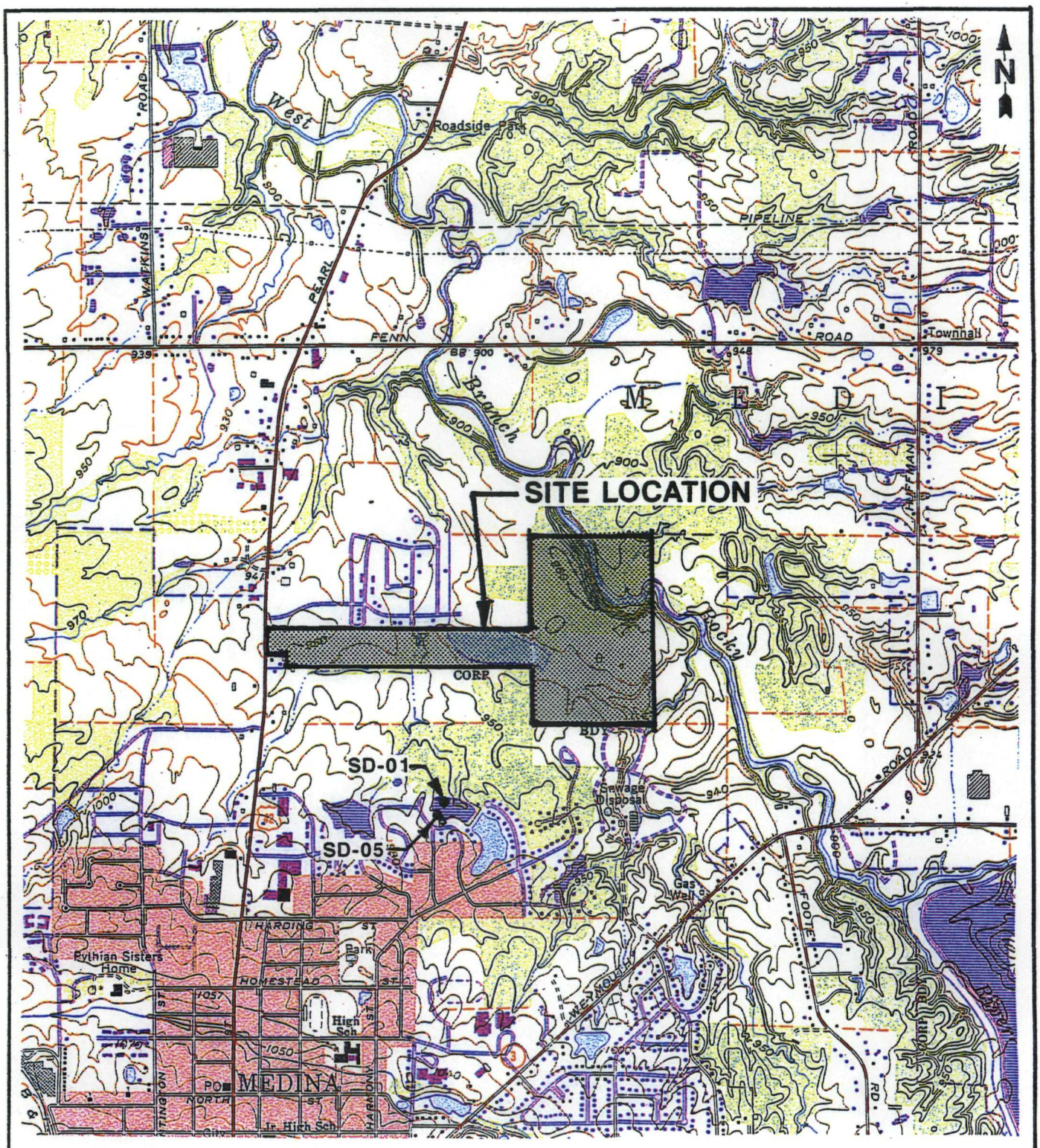


SCALE 1:24000

1 0 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'

LEGEND

● SD-01 SEDIMENT SAMPLING LOCATION AND SAMPLE NUMBER

SOURCE: MODIFIED FROM USGS, MEDINA, OHIO, QUADRANGLE, 1984c

BOHATY DRUM SITE
MEDINA COUNTY, OHIO

FIGURE 4
BACKGROUND SAMPLING LOCATIONS

PRC ENVIRONMENTAL MANAGEMENT, INC.

TABLE 1

SUMMARY OF SEDIMENT SAMPLES COLLECTED

Sample Number	Sampling Location	Justification
Sediment		
SD-01	This sediment sample was collected from an off-site pond at Forest Meadows Lake Park, which is located at Lakeview and Hickory Grove Roads about 0.5 mile south of the site.	This sample was collected to determine background sediment conditions.
SD-02	This sediment sample was collected from wetlands within the on-site pond.	This sample was collected to determine whether a release of hazardous constituents from the site to wetlands has occurred.
SD-03	This sediment sample was collected from wetlands within the on-site pond.	This sample was collected to determine whether a release of hazardous constituents from the site to wetlands has occurred.
SD-04	This sediment sample was collected from wetlands within the on-site pond.	This sample was collected to determine whether a release of hazardous constituents from the site to wetlands has occurred.
SD-05	This sediment sample was collected from an off-site pond at Forest Meadows Lake Park, which is located at Lakeview and Hickory Grove Roads about 0.5 mile south of the site.	This sample was collected to determine background sediment conditions.
Quality Assurance and Quality Control (QA/QC)		
SD-02D	This sediment sample was a duplicate of sample SD-02.	This sample was collected as a QC sample.

applicable portions of PRC's standard operating procedures (SOP). PRC offered to split all samples with Ethel Bohaty, the site representative, but this offer was declined.

During the sampling investigation, the proposed sampling plan in the U.S. EPA-approved SSIP for the BD site was adhered to with the following exceptions: sediment samples SD-03 and SD-04 were collected about 200 feet west of the locations proposed in the SSIP based on field measurements of 0.13 mile of wetlands along the shore of the on-site pond. The SSIP-proposed sampling locations were based on visual estimates made during the reconnaissance. All samples were collected from surface water bodies using decontaminated stainless steel scoops, spoons, and bowls. Samples SD-01 and SD-05 are background samples collected in an off-site pond at Forest Meadows Lake Park, which is located at Lakeview and Hickory Grove Roads about 0.5 mile south of the site. This pond appeared to be manmade and about 1 acre in size. PRC observed numerous fish, ducks, and invertebrates in this pond. Sample SD-01 was collected near the northwestern corner of the off-site pond, sample SD-05 was collected near the southwestern corner.

Sample SD-02 and duplicate sample SD-02D were collected in the southeastern portion of the on-site pond. These samples were collected at the April 1992 sampling location (SL-5) where elevated levels of contaminants were detected (Roy F. Weston, Inc. 1992) (see Attachment A). Cattails and an oily sheen were observed in the pond at this location. Sample SD-03 was collected in wetlands 540 feet west of the sampling location for samples SD-02 and SD-02D. Sample SD-04 was collected in wetlands 150 feet northwest of the sampling location for sample SD-03. Cattails were observed in the pond at the sampling locations for samples SD-03 and SD-04.

4.0 ANALYTICAL RESULTS

All samples collected during the SSI were analyzed through the U.S. EPA Contract Laboratory Program (CLP). The laboratory analyzed the samples for U.S. EPA target compound list (TCL) volatile organic compounds (VOC), semivolatile organic compounds (SVOC), pesticides, and PCBs. The samples were also analyzed for target analyte list (TAL) inorganic substances (metals and cyanide). All data was reviewed by U.S. EPA Region 5 for compliance with the terms of the CLP. The sediment sample analytical results are summarized in Table 2.

The concentrations of substances detected in the environmental samples were compared with the associated background concentrations to determine which substances may have been released from the site. The analytical results for substances detected at elevated concentrations in on-site samples are highlighted as significant results in Table 2. A result was considered significant if the substance in question was detected at a concentration significantly above the background level and above the sample-specific contract-required quantitation limit or detection limit (CRQL or CRDL, respectively). Each sample-specific CRQL and CRDL was determined by adjusting the CRQL or CRDL for the percent solids and dilution factor associated with the sample. Analytical results for sediment samples indicate that three SVOCs and one metal have been released from the BD site to wetlands in the on-site pond. Significant findings of sediment sample analyses include: silver in sample SD-02D; and phenanthrene, fluoranthene, and pyrene in sample SD-03.

5.0 PATHWAYS

This section discusses the groundwater migration, surface water migration, soil exposure, and air migration pathways associated with the BD site.

5.1 GROUNDWATER MIGRATION PATHWAY

This section discusses geology and soils, groundwater releases, and targets associated with the groundwater migration pathway at the site.

5.1.1 Geology and Soils

The site is located on the morainic upland portion of the Allegheny Plateau. The land surface on site descends in elevation from southwest to northeast toward the West Branch Rocky River.

Most on-site soils consist of Mahoning silt loam, which is characterized by poor drainage and seasonal wetness; and Ellsworth silt loam, which is characterized by medium runoff, clayey subsoil, and seasonal wetness. Orrville silt loam is located in intermittent stream channels on site (OEPA 1993b). The bedrock surface topography reflects the land surface topography. Bedrock beneath the site consists of sandstones and shales of the Cuyahoga formation. The upper aquifer is a sandstone

TABLE 2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS

Sampling Location		SD-01 BACKGROUND	SD-02	SD-03	SD-04	SD-02D DUPLICATE	SD-05 BACKGROUND
Date		5/31/94	5/31/94	5/31/94	5/31/94	5/31/94	5/31/94
Time		1610	0940	1105	1345	0940	1635
Organic Traffic Report No.		EYH 68	EYH 69	EYH 70	EYH 71	EYH 72	EYH 73
Inorganic Traffic Report No.		MEQW 30	MEQW 31	MEQW 32	MEQW 33	MEQW 34	MEQW 35
VOLATILE ORGANIC COMPOUNDS	**CRQL**						
methylene chloride	10	ND	7J	8J	5J	8J	6J
acetone	10	110J	81J	ND	61J	130J	85J
toluene	10	ND	7J	ND	ND	ND	ND
Tentatively Identified Compounds	NA	ND	ND	ND	ND	ND	ND
SEMIVOLATILE ORGANIC COMPOUNDS	**CRQL**						
naphthalene	330	ND	ND	26J	ND	ND	ND
acenaphthene	330	ND	ND	61J	ND	ND	ND
dibenzofuran	330	ND	ND	91J	ND	ND	ND
fluorene	330	ND	ND	170J	ND	ND	ND
phenanthrene	330	ND	ND	***1,600***	ND	ND	ND
anthracene	330	ND	ND	410J	ND	ND	ND
carbozole	330	ND	ND	140J	ND	ND	ND
fluoranthene	330	ND	ND	***1,600***	ND	ND	ND
pyrene	330	ND	26J	***1,000***	ND	ND	ND
butylbenzylphthalate	330	ND	69J	ND	ND	ND	ND
benzo(a)anthracene	330	ND	ND	520J	ND	ND	ND
chrysene	330	ND	ND	460J	ND	ND	ND
bis(2-ethylhexyl)phthalate	330	550	800J	2,100	800	2,000	1,400
benzo(b)fluoranthene	330	ND	ND	510J	ND	ND	ND
benzo(k)fluoranthene	330	ND	ND	220J	ND	ND	ND
benzo(a)pyrene	330	ND	ND	390J	ND	ND	ND
indeno(1,2,3-cd)pyrene	330	ND	ND	260J	ND	ND	ND
dibenzo(a,h)anthracene	330	ND	ND	48J	ND	ND	ND
benzo(g,h,i)perylene	330	ND	ND	150J	ND	ND	ND
Tentatively Identified Compounds (total)	NA	1,500J	6,080J	2,370J	2,740J	11,700J	5,890J
PESTICIDES/PCB COMPOUNDS	**CRQL**						
None Detected							
ANALYTE DETECTED	**CRDL**						
aluminum	40	11,900	11,900	15,400	12,000	12,900	10,400
arsenic	2	13.0	4.4	3.7B	6.9	4.8B	79.6
barium	40	75.9J	146J	180J	55.4BJ	136J	93.4J
beryllium	1	ND	0.79J	ND	ND	ND	ND
cadmium	1	ND	ND	ND	ND	ND	1.8J
calcium	1,000	57,100	1,540B	1,860B	1,000B	1,650B	2,070
chromium	2	17.6	14.7	19.3	16.6	17.0	13.9
cobalt	10	5.6B	11.1B	9.8B	7.2B	9.6B	8.4B
copper	5	16.9	7.0J	9.0J	15.3J	10.1J	27.9
iron	20	26,200J	17,200J	20,500J	24,300J	18,900J	22,100J
lead	0.6	10.6	8.0	17.9	9.2	35.1	18.5
magnesium	1,000	10,100J	2,120J	2,550J	2,880J	2,200BJ	2,480J
manganese	3	245J	665J	988J	299J	678J	1,090J
mercury	0.1	0.15J	0.20J	0.31J	0.14J	ND	0.20J
nickel	8	13.8	19.2	20.8	18.0	ND	14.8
potassium	1,000	2,180	971B	2,730	1,650	1,430B	1,770
selenium	1	ND	ND	ND	ND	1.8J	0.94J
silver	2	3.1J	ND	ND	2.1J	***17.4***	5.0J
sodium	1,000	529B	639B	695B	400B	852B	655B
vanadium	10	20.4	22.6	24.8	23.7	24.8B	20.0
zinc	4	54.4	81.9	109	48.0	80.8	78.6
cyanide	2	0.76J	0.43J	0.52J	0.29J	0.59J	0.31J

Notes:

All concentrations of organic analytes are in micrograms per kilogram (ug/kg).

All concentrations of inorganic analytes are in milligrams per kilogram (mg/kg).

CRQL = Contract-required quantitation limit. The listed CRQLs assume 100% solids concentration in the sample. Sample-specific CRQLs are determined by dividing the listed value by the actual percent solids concentration in the sample (and, if applicable, multiplying by dilution factors).

CRDL = Contract-required detection limit. The listed CRDLs assume 100% solids concentration in the sample. Sample-specific CRDLs are determined by dividing the listed value by the actual percent solids concentration in the sample (and, if applicable, multiplying by dilution factors).

NA = Not applicable

ND = Not detected

xx = ***significant result***

GENERAL QUALIFIER	DEFINITION	ANALYTICAL BIAS
J	Value is estimated (also indicates a compound that is detected below the sample-specific CRQL).	May be high, low, or unknown.
ANALYTE QUALIFIER	**DEFINITION**	**ANALYTICAL BIAS**
B	Value is below the sample-specific CRDL.	Unknown

formation located about 20 feet bgs, and the lower aquifer is a sandstone and shale formation located 20 to 50 feet bgs in the vicinity of the BD site (ODNR 1994; OEPA 1993b). The net precipitation for the area is about 6 inches and the 1-year 24-hour rainfall is about 2.5 inches (U.S. Department of Commerce 1968a and b).

Three monitoring wells were installed on Wal-Mart property near Ledgewood Drive and Jefferson Street. According to cross section drawings of these wells, the depth to bedrock is 25 to 35 feet bgs (OEPA 1993b).

5.1.2 Groundwater Releases

No observed release to groundwater has been documented. No groundwater sampling information is available. Wal-Mart has conducted sampling of the monitoring wells located north of the site; however, PRC could not obtain the sample analytical results because of Wal-Mart's company policies (PRC 1994a).

The static water level is about 10 feet bgs in the site vicinity (ODNR 1994; OEPA 1993b). Soil contamination at the BD site has been documented by an OEPA sampling investigation (BETZ Analytical Services 1992). This investigation revealed cadmium, chromium, lead, mercury, and zinc at concentrations above background levels on site (BETZ Analytical Services 1992; Logan and Miller 1983; OEPA 1993a). Attachment B provides a soil sampling location map for this investigation. Before the removal action conducted by U.S. EPA, on-site soil was contaminated by drums of waste dumped on site (U.S. EPA 1993). Although the site is comprised of poorly drained soils, over time contaminants may migrate to shallow groundwater, which is interconnected with the upper aquifer (OEPA 1993b).

5.1.3 Targets

Population targets within the 4-mile target distance limit may be subject to potential contamination. A 4-mile radius map is included in Appendix C. The average number of persons per household in Medina County is 2.9 (PRC 1994b). An estimated total of 3,753 people are using groundwater as a source of drinking water within a 4-mile radius of the site (USGS 1984a and 1984b; City of Medina

1994; Medina County 1994). The nearest well is located 0.5 to 1 mile west of the area of on-site soil contamination (City of Medina 1994). Most residents within a 4-mile radius of the site receive drinking water from the Medina County or City of Medina water supply systems (City of Medina 1994; Medina County 1994).

Medina County receives drinking water from the Lorain County distribution system. Lorain County obtains its drinking water from surface water intakes in Lake Erie. The intakes are located more than 15 miles downstream of the site (PRC 1994c).

The City of Medina obtains 87 percent of its drinking water from the Lake Medina reservoir and 13 percent from four drinking water wells. Water supplied by the wells is pumped into Lake Medina, and drinking water is subsequently drawn from the Lake Medina reservoir. Lake Medina is located about 1.5 miles upstream of the site and has a capacity of 420 million gallons. City of Medina wells number 1, 2, and 3 are located between 1 and 2 miles southeast of the site; well number 4 is located between 0.5 and 1 mile southeast of the site. The total withdrawal from all City of Medina drinking water wells in 1993 was 161 billion gallons. Of this total, well number 1 provided 9.8 percent, well number 3 provided 73.6 percent, and well number 4 provided 16.6 percent; well number 2 was not used (City of Medina 1994; PRC 1994d). The City of Medina water distribution system serves a total of about 20,911 persons in the City of Medina and some neighboring areas (PRC 1994d).

5.2 SURFACE WATER MIGRATION PATHWAY

This section discusses the surface water releases and targets associated with the surface water migration pathway at the BD site.

5.2.1 Surface Water Releases

During the SSI, a release to wetlands in the on-site pond was confirmed by chemical analyses of sediment samples. Significant findings are discussed in Section 4.0. Because no liner, leachate collection system, maintained engineered cover, or functional and maintained runon control system and runoff management system are present on site, and because hazardous substances have been

detected in sediment samples at concentrations above background levels, PRC concluded that contaminants may have migrated from previous disposal areas into the on-site pond.

During an April 1992 sampling investigation, a release to surface water was documented by chemical analysis. Di-n-butylphthalate and 2-butanone were detected in sediment samples from the on-site pond at concentrations greater than three times the associated background levels. Background samples were collected from the unnamed streams upstream of the site. A surface water and sediment sampling location map associated with this investigation is provided in Attachment A. Samples collected from the unnamed streams indicate that concentrations of contaminants downstream of the site are lower than the associated background concentrations upstream of the site (Roy F. Weston, Inc. 1992). Therefore, the unnamed streams are not believed to be subject to actual contamination.

5.2.2 Targets

During the site reconnaissance, John Bohaty stated that the on-site pond is used for fishing by trespassers. Mr. Bohaty has also fished in this pond. In addition, Ethel Bohaty stated during a previous OEPA investigation that the Bohatys have a problem with trespassers, especially around the pond (OEPA 1989a). Some people living in houses bordering the site to the north have extended their backyards on site to abut this pond. Residents have also installed playground equipment and picnic tables in backyards on site as well as a bridge leading to the site. During the reconnaissance inspection, the inspection team observed wetland vegetation along the southwestern portion of the on-site pond. Measurements made by the sampling team during the SSI indicated that this vegetation extended for 0.13 mile. The Indiana Bat, a federally endangered species, may be found in Medina County and may potentially come into contact with the on-site pond (U.S. Department of the Interior 1994). Surface water is not used as a source of drinking water within 15 miles downstream of the site.

5.3 SOIL EXPOSURE PATHWAY

This section discusses the soil releases and targets associated with the soil exposure pathway at the BD site.

5.3.1 Soil Releases

A release to on-site soil has been documented by chemical analysis. During the May 14, 1992, OEPA sampling investigation, cadmium, lead, mercury, chromium, and zinc were detected in soil samples at concentrations greater than three times the associated background levels (BETZ Analytical Services 1992; Logan and Miller 1983). A 130,000-square-foot area of soil contamination is located in the south-central portion of the site (OEPA 1992c).

5.3.2 Targets

No residences, schools, day-care facilities, or workers are located within 200 feet of the area of observed on-site soil contamination. The Marie Bohaty home has the shortest travel distance to the area of observed contamination. No natural barriers exist between this residence and the area of observed contamination. The shortest straight line between this residence and the area of observed contamination measures 450 feet (USGS 1984a).

Access to the site is partially restricted by a fence along Pearl Road and a dilapidated fence along a portion of the northern perimeter. The rest of the site is easily accessible. During a previous investigation, Ethel Bohaty stated that the Bohatys have had a problem with trespassers on site (OEPA 1989a). Therefore, trespassers may easily come in contact with contaminated soil. The area surrounding the site is commercial and residential. The average number of persons per household in Medina County is 2.9 (PRC 1994b). The total number of persons residing within 1 mile of the site is about 7,500 (USGS 1984a and 1984b).

5.4 AIR MIGRATION PATHWAY

The air migration pathway does not significantly affect the overall site HRS score. Although hazardous constituents may have been released to air during the site's active period, no sample analytical results are available to verify this hypothesis. PRC does not believe that a release of hazardous constituents to air could be demonstrated because few VOCs were noted in the analytical results reviewed. PRC noted no odors or airborne particulates during the reconnaissance or sampling investigation. Also, the 130,000 ft^2 area of soil contamination is covered with vegetation, which minimizes the potential for contaminated particulates of soil to become airborne.

REFERENCES

BETZ Analytical Services. 1992. Letter Regarding and Submitting Analytical Results. From Burton R. Griffin, Quality Assurance/Quality Control Manager. To Steve McBride, Ohio Environmental Protection Agency (OEPA). June 12.

City of Medina. 1994. Letter Regarding the City of Medina's Water Distribution System. From Joseph R. Sheehy, Superintendent of Water Treatment. To Kristine Kruk, PRC Environmental Management, Inc. (PRC). March 7.

Ecology and Environment, Inc. (E&E). 1991. Site Assessment Report for the Bohaty Drum (BD) Site. Prepared for U.S. Environmental Protection Agency (U.S. EPA) Region 5. October 25.

Logan, Terry J., and Robert H. Miller. 1983. "Background Levels of Heavy Metals in Ohio Farm Soils." Ohio State University, Ohio Agricultural Research and Development Center. Research Circular 275. February.

Medina County. 1994. Updated Map of the Medina County Water System. Provided by John Becks, Sanitary Engineer, to Kristine Kruk, PRC. March.

Ohio Department of Natural Resources (ODNR). 1994. Photocopies of Well Logs for Monitoring Wells Located Within 1 Mile of the BD Site. Provided by Christine Straub to Kristine Kruk, PRC. January.

Ohio Environmental Protection Agency (OEPA). 1989a. Field Report of an Investigation Conducted at the BD Site. Prepared by Dan Osterfeld. August 17.

OEPA. 1989b. Internal Memorandum Regarding the Bohaty Property. From Craig Kleinhenz. To Dave Mentzer. July 28.

OEPA. 1991. Letter Regarding the BD Site. From Rod Beals. To Steve Renninger, U.S. EPA. September 16.

OEPA. 1992a. Notes from a Site Visit to the BD Site During Removal Actions Conducted by U.S. EPA. Prepared by Teri Phillips. March 31.

OEPA. 1992b. Preliminary Assessment Report for the BD Site. August 14.

OEPA. 1992c. Sampling Location Map for Sampling Event Conducted by Karla Auker, Teri Phillips, and Rick Smith. Provided to Kristine Kruk of PRC Environmental Management, Inc. (PRC), During the December 14, 1993, Reconnaissance Inspection of the Bohaty Drum Site. May 14.

OEPA. 1993a. Letter Regarding Proposed Apartment Location Near the BD Site. From Teri Phillips. To George L. Engel, Manager, Cleveland Office, Region 5, U.S. Department of Housing and Urban Development (HUD). January 25.

OEPA. 1993b. Interoffice Communication Regarding a Summary of Geology and Hydrogeology at the BD Site. From Kathy Kuhn, Hydrogeologist. To Teri Phillips, Environmental Specialist. February 8.

PRC Environmental Management, Inc. (PRC). 1994a. Record of Telephone Conversation Regarding Monitoring Wells Located North of the BD Site. Between Kristine Kruk and Mike Bingham, Wal-Mart. March 3.

PRC. 1994b. Record of Telephone Conversation Regarding the Average Number of Persons Per Household in Medina County, Ohio. Between Kristine Kruk and Scott Deuel, U.S. Bureau of the Census, Chicago, Illinois. March 2.

PRC. 1994c. Record of Telephone Conversation Regarding the Medina County, Ohio, Drinking Water Supply. Between Kristine Kruk and John Becks, Medina County Sanitary Engineer. February 28.

PRC. 1994d. Record of Telephone Conversation Regarding the City of Medina, Ohio, Water Distribution System. Between Kristine Kruk and Joe Sheehy, City of Medina Superintendent of Water Treatment. March 22.

Roy F. Weston, Inc. 1992. "Investigation of the Aquatic Areas of the BD Site." Prepared for U.S. EPA. April.

U.S. Department of Commerce (DOC). 1968a. *Climatic Atlas of the United States*. Normal Annual Precipitation. U.S. Government Printing Office (USGPO). Washington DC.

U.S. Department of Commerce (DOC). 1968b. *Climatic Atlas of the United States*. Mean Annual Lake Evaporation. U.S. Government Printing Office (USGPO). Washington DC.

U.S. Department of Housing and Urban Development (HUD). 1992. Status Report Regarding the Bohaty Farm Hazardous Waste Site. April 16.

U.S. Department of the Interior. 1994. List of "Federally Listed Endangered, Threatened, and Proposed Species; Ohio." Fish and Wildlife Service. April 1.

U.S. Environmental Protection Agency (U.S. EPA). 1990. *Federal Register*. 40 Code of Federal Regulations (CFR) Part 300, Hazard Ranking System, Final Rule. December 14.

U.S. EPA. 1992. Emergency Contingency Plan for the BD Site in Medina County, Ohio. January.

U.S. EPA. 1993. On-Scene Coordinator's Report, CERCLA Removal Action, BD. Prepared by Steve Renninger. January 25.

U.S. Geological Survey (USGS). 1984a. 7.5-Minute Series Topographic Map of Medina, Ohio, Quadrangle.

USGS. 1984b. 7.5-Minute Series Topographic Map of Mallet Creek, Ohio, Quadrangle.

APPENDIX A

POTENTIAL HAZARDOUS WASTE SITE-
SITE INSPECTION REPORT
(FORM 2070-13)

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-13
July, 1981

EPA

Potential Hazardous Waste Site

Site Inspection Report

Site Inspection Report

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Bohaty Drum Site	4271 Pearl Road				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG. DIST.**
Medina	OH	44256	Medina		

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41° 09' 32" N	81° 51' 41" W	■ A. PRIVATE ☐ B. FEDERAL ___ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
05 / 31 / 94 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	1963 (BEGINNING YEAR) Early 1980s (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ■ B. EPA CONTRACTOR PRC Environmental Management, Inc. (Name of Firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of Firm)

☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of Firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Kristine Kruk	Environmental Scientist	PRC	(312) 856-8700
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Mary Wojciechowski	Environmental Scientist	PRC	(312) 856-8700
Christine Hirschman	Biologist	PRC	(513) 241-0149
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Ethel Bohaty	Owner	4271 Pearl Road Medina, OH 44256	(216) 722-2671
John Bohaty	Site Representative	(Same as above)	(216) 722-2671
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	8:00 a.m.	Sunny; about 85 °F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Jeanne Griffin	U.S. Environmental Protection Agency (EPA)	(312) 886-3007

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Kristine Kruk		PRC	(312) 946-6480	09 / 15 / 94

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS
- ■ D. OTHER Contaminated soil and sediment *(Specify)*

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS: Unknown

CUBIC YARDS: _____

NO OF DRUMS: _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

- ■ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ■ D. PERSISTENT
- ■ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES *(See Appendix for most frequently cited CAS Numbers)*

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	* See Sections 2.3 and 4.0 of the SSIR.				

V. FEEDSTOCKS *(See Appendix for CAS Numbers)*

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: OH	02 SITE NUMBER: OHD 987 033 743

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,753
04 NARRATIVE DESCRIPTION

See Section 5.1 of the SSIR.

01 ■ B. SURFACE WATER CONTAMINATION — 02 ■ OBSERVED (DATE: 05/31/94) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION

See Sections 4.0 and 5.2 of the SSIR regarding observed contamination of sediment in the on-site pond.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 05/14/92) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: About 3 (Acres)
04 NARRATIVE DESCRIPTION

See Sections 2.3 and 5.3 of the SSIR.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 25,000
04 NARRATIVE DESCRIPTION

See Section 5.1 of the SSIR.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: OH	02 SITE NUMBER: OHD 987 033 743

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Because of contamination of sediments in the on-site pond, damage to flora, fauna, and the food chain may be possible.

01 ■ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

See Comment II.J above.

01 ■ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

See Comment II.J above.

01 ■ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/Runoff/Standing Liquids, Leaking Drums)* — 02 ■ OBSERVED (DATE: 05/14/92 and 05/31/94) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown
04 NARRATIVE DESCRIPTION

Contaminated on-site soils and sediment is evidence of hazardous substance migration from the source area.

01 ☐ N. DAMAGE TO OFF-SITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIAL AFFECTED: ~25,000

IV. COMMENTS

None.

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
■ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
■ H. OPEN DUMP		
■ I. OTHER Contaminated soil and sediment (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ■ A. BUILDINGS ON SITE

06 AREA OF SITE

150 (Acres)

07 COMMENTS

None.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ■ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

See Part 3, Section II.M.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS

Site access is restricted by a chain-link fence along Pearl Road and a portion of the northern perimeter. However, the remainder of the site is not fenced and the areas of on-site soil and sediment contamination are easily accessible.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI Report.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WASTE, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)	SURFACE	WELL	02 STATUS ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ■	B. ■	A. ■	B. ☐	C. ☐	A. ~0.75 (mi)
NON-COMMUNITY	C. ☐	D. ■	D. ■	E. ☐	F. ☐	B. ~0.75 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSABLE

02 POPULATION SERVED BY GROUND WATER ~25,000

03 DISTANCE TO NEAREST DRINKING WATER WELL ~0.75 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
~10 (ft)	Northeast	20 (ft)	440,000,000 (gpd)	☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

A private drinking water well is located about 0.75 mile west of the site. City of Medina municipal drinking water wells are located between 0.75 and 2 miles southeast of the site.

10 RECHARGE AREA	COMMENTS	11 DISCHARGE AREA	COMMENTS
☐ YES ☐ NO	Unknown	■ YES ☐ NO	

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

■ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
On-site pond	■	0 (mi)
On-site ditches	☐	0 (mi)
West Branch Rocky River	☐	1 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. ~3,753 NO. OF PERSONS	B. Not applicable (NA) NO. OF PERSONS	C. NA NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.01 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
NA	0.01 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The area surrounding the site is a densely populated residential and commercial area. However, because a release to air from the Bohaty Drum site has not been documented, the total population between 1 and 3 miles from the site is not applicable.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WASTE, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	SITE NUMBER
OH	OHD 987 033 743

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE *(Check one)*

☐ A. 10^{-6} - 10^{-8} cm/sec ■ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK *(Check one)*

☐ A. IMPERMEABLE *(Less than 10^{-6} cm/sec)* ■ B. RELATIVELY IMPERMEABLE *(10^{-4} - 10^{-6} cm/sec)* ☐ C. RELATIVELY PERMEABLE *(10^{-2} - 10^{-4} cm/sec)* ☐ D. VERY PERMEABLE *(Greater than 10^{-2} cm/sec)*

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
~20 (ft)	Unknown (ft)	Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24-HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
6 (in)	NA (in)	Flat, ~5 %	Northeast	Unknown %

09 FLOOD POTENTIAL	10
NA	☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS *(5-acre minimum)*

ESTUARINE	OTHER
A. NA (mi)	B. 0 (mi)

12 DISTANCE TO CRITICAL HABITAT *(of endangered species)*

NA (mi)

ENDANGERED SPECIES: Unknown

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AGRICULTURAL LANDS AG LAND
A. <0.5 (mi)	B. 0.01 (mi)	C. Unknown (mi)	D. Unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located on the morainic upland portion of the Allegheny Plateau. The land surface on site descends in elevation from southwest to northeast toward the West Branch Rocky River.

VII. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER Sediment	6	Keystone Environmental Laboratory	08/02/94

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNu/OVA	No readings above background levels

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ■ AERIAL

02 IN CUSTODY OF PRC
(Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS: PRC

V. OTHER FIELD DATA COLLECTED *(Provide narrative description)*

None

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Ethel Bohaty		4271 Pearl Road		Medina	OH	44256
John J. Bohaty		4271 Pearl Road		Medina	OH	44256

PARENT COMPANY (if applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
John Bohaty		4271 Pearl Road		Medina	OH	44256
Clara Bohaty		4271 Pearl Road		Medina	OH	44256

IV. REALTY OWNER(S) (if applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

PRC. 1991. Title Search Report, The Bohaty Properties. Prepared for U.S. EPA. November 18.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. CURRENT OPERATOR *(Provide if different from owner)*

01 NAME	02 D+B NUMBER
Same as present owner	

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY *(if applicable)*

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) *(List most recent first; provide only if different from owner)*

01 NAME	02 D+B NUMBER
Same as previous owner	

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATOR'S PARENT COMPANY *(if applicable)*

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
None			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Alcan Aluminum Corporation		Ashland Chemical	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Not available (NA)		NA	

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Synthetic Products		Uniroyal Chemical Company	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NA		NA	

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI Report.

Bohaty. 1992. Customer Database from 104(e) Responses, Bohaty Properties. February 12.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE: OH	02 SITE NUMBER: OHD 987 033 743

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ■ E. CONTAMINATED SOIL REMOVED — 02 DATE 01/15-05/07/92 — 03 AGENCY U.S. EPA
04 DESCRIPTION

During a removal action, a total of about 1,000 drums were uncovered at the BD site. Soils around the drums were excavated and taken off site for disposal.

01 ■ F. WASTE REPACKAGED — 02 DATE 01/15-05/07/92 — 03 AGENCY U.S. EPA
04 DESCRIPTION

During the removal action, the contents of drums that contained hazardous waste were consolidated into 309 drums.

01 ■ G. WASTE DISPOSED ELSEWHERE — 02 DATE 02/13-05/07/92 — 03 AGENCY U.S. EPA
04 DESCRIPTION

During the removal action, waste paint was landfilled at Envirosafe Services in Oregon, Ohio; pesticide and herbicide waste was incinerated at Ensco, Inc., in El Dorado, Arkansas; waste fuel was blended at Clark Processing in Dayton, Ohio; PCB waste was incinerated at Aptus in Coffeyville, Kansas; and hazardous waste liquid was treated and disposed of at Dynecol, Inc., in Detroit, Michigan.

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.
U.S. EPA. 1993. On-Scene Coordinator's Report, CERCLA Removal Action, Bohaty Drum. Prepared by Steve Renninger. January 25.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	OHD 987 033 743

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ■ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SSI Report.

APPENDIX B

PHOTOGRAPHIC LOG

(Three Pages)

Photograph No. 1 Sampling Location: SD-02 and SD-02D
Orientation: North Date: 05/31/94
Description: Sampling in wetlands in the southeastern portion of the on-site pond; note the oily sheen on the surface water in this location

Photograph No. 2 Sampling Location: SD-03
Orientation: North Date: 05/31/94
Description: Sampling in wetlands in the southern portion of the on-site pond about 540 feet west of sampling locations SD-02 and SD-02D

Photograph No. 3 Sampling Location: SD-04
Orientation: Northeast Date: 05/31/94
Description: Sampling in wetlands in the southwestern portion of the on-site pond about 150 feet northwest of sampling location SD-03

Photograph No. 4 Sampling Location: SD-02, SD-02D, and SD-03
Orientation: Southeast Date: 05/31/94
Description: View of wetlands along the southern shore of the on-site pond

Photograph No. 5
Sampling Location: SD-01
Orientation: East
Date: 05/31/94
Description: Sampling near the northwestern corner of an off-site pond; this is a background sampling location

Photograph No. 6 Sampling Location: SD-05
Orientation: East Date: 05/31/94
Description: Sampling near the southwestern corner of an off-site pond; this is a background sampling location

APPENDIX C

4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

Some images in this document may be illegible or unavailable in SDMS.
Please see reason(s) indicated below:

☐ Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comments:

☐ Includes ___ COLOR or RESOLUTION variations.
Unless otherwise noted, these pages are available in monochrome. The source document page(s) is more legible than the images. The original document is available for viewing at the Superfund Records Center.

Specify Type of Document(s) / Comments:

☐ Confidential Business Information (CBI).
This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

Specify Type of Document(s) / Comments:

☒ Unscannable Material:
Oversized __x__ or ____ Format.
Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. .

Specify Type of Document(s) / Comments:

4-MILE RADIUS MAP

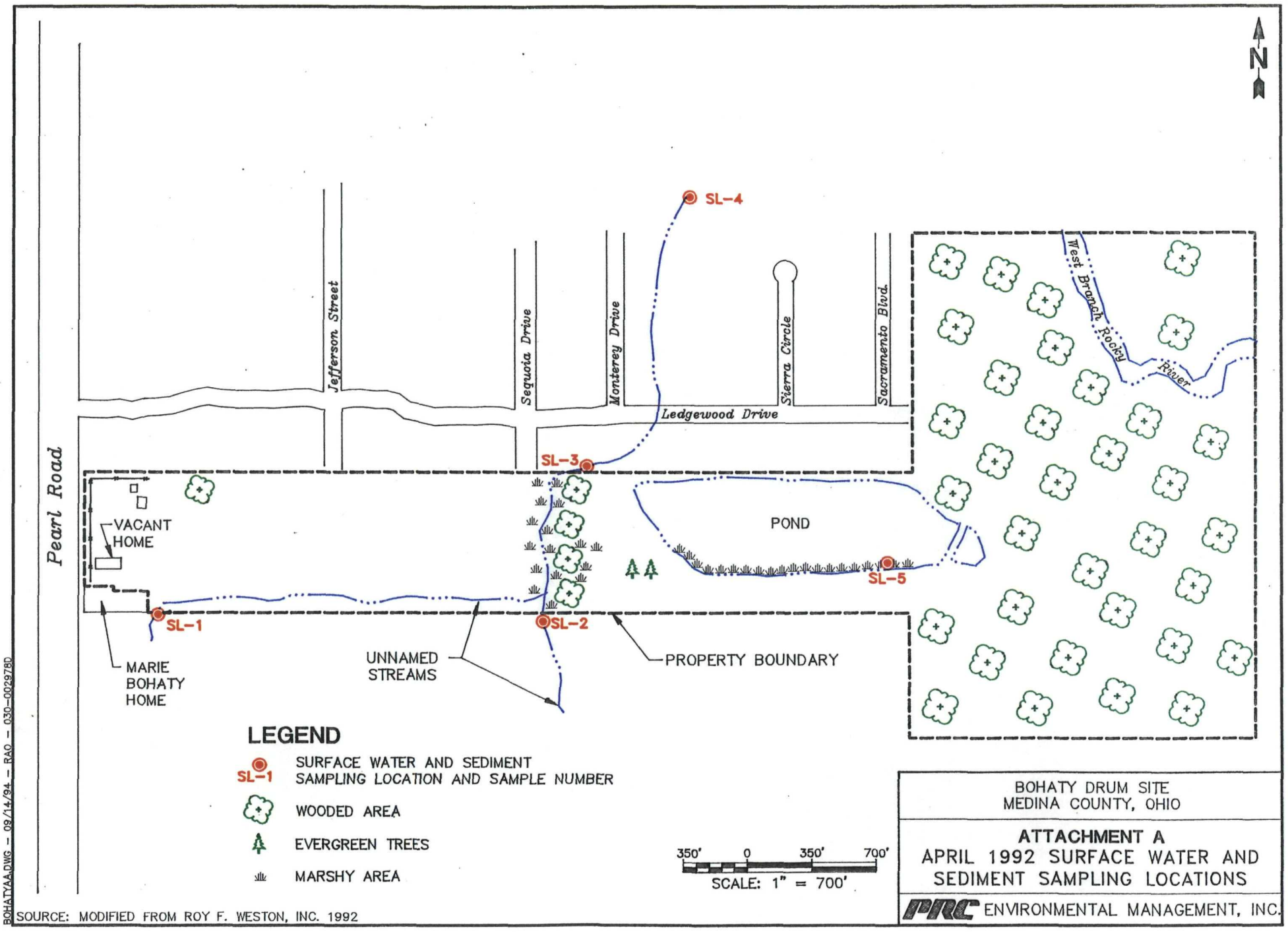
☐ Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:

ATTACHMENT A

APRIL 1992 SURFACE WATER AND SEDIMENT SAMPLING LOCATION MAP

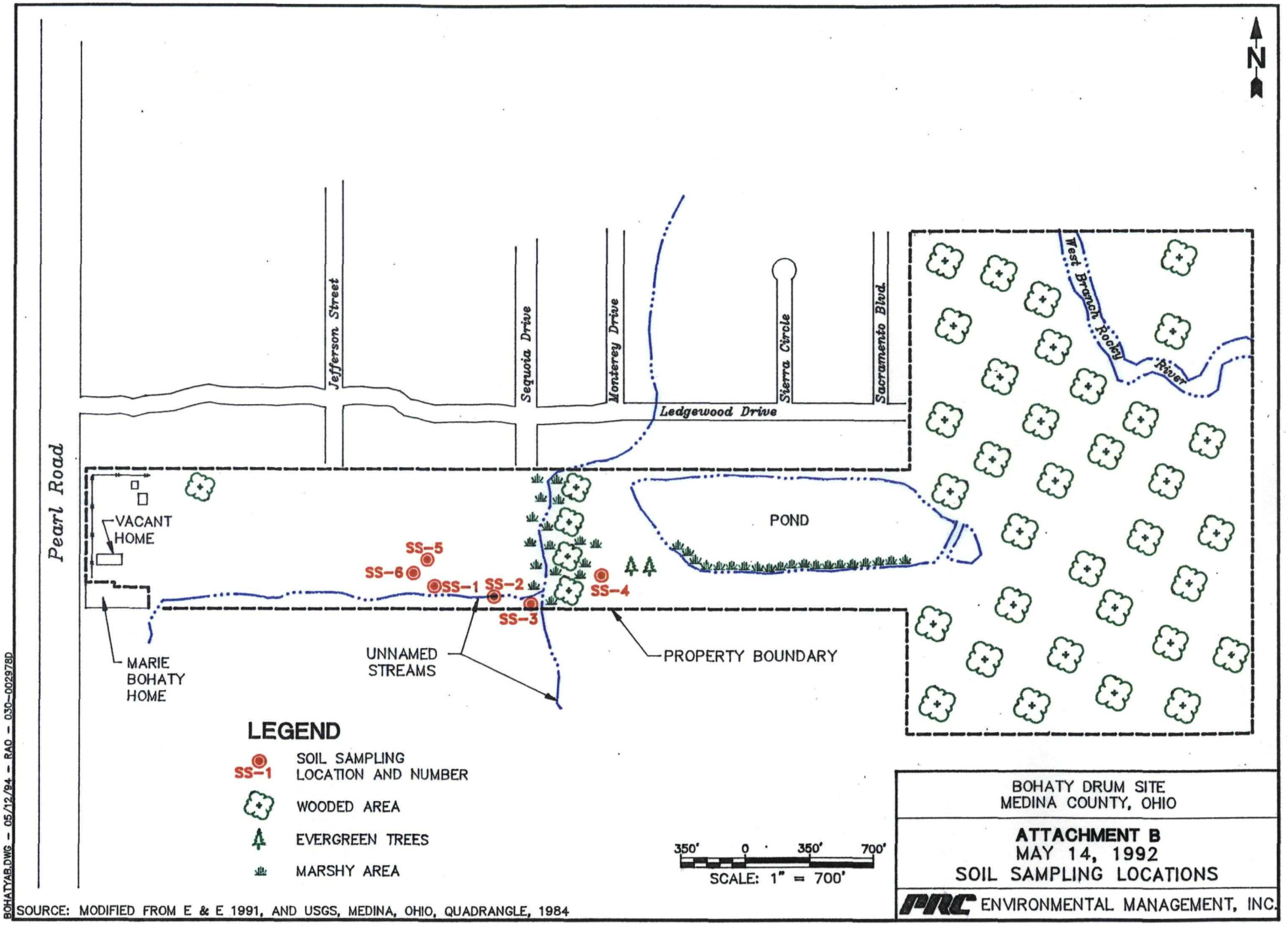
(One Sheet)


N
SL-4
Jefferson Street
Sequoia Drive
Monterey Drive
Sierra Circle
Sacramento Blvd.
West Branch Rocky River
Ledgewood Drive
SL-3
Pearl Road
VACANT HOME
POND
SL-5
SL-1
SL-2
MARIE BOHATY HOME
UNNAMED STREAMS
PROPERTY BOUNDARY
LEGEND
SL-1 SURFACE WATER AND SEDIMENT SAMPLING LOCATION AND SAMPLE NUMBER
WOODED AREA
EVERGREEN TREES
MARSHY AREA
350' 0 350' 700'
SCALE: 1" = 700'
BOHATY DRUM SITE
MEDINA COUNTY, OHIO
ATTACHMENT A
APRIL 1992 SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS
PRC ENVIRONMENTAL MANAGEMENT, INC.
SOURCE: MODIFIED FROM ROY F. WESTON, INC. 1992
BOHATYAA.DWG - 09/14/94 - RAO - 030-0029780

ATTACHMENT B

MAY 14, 1992, SOIL SAMPLING LOCATION MAP

(One Sheet)


N
Pearl Road
Jefferson Street
Sequoia Drive
Monterey Drive
Sierra Circle
Sacramento Blvd.
Ledgewood Drive
West Branch Rocky River
POND
VACANT HOME
SS-5
SS-6
SS-1
SS-2
SS-3
SS-4
MARIE BOHATY HOME
UNNAMED STREAMS
PROPERTY BOUNDARY
LEGEND
SS-1 SOIL SAMPLING LOCATION AND NUMBER
WOODED AREA
EVERGREEN TREES
MARSHY AREA
350' 0 350' 700'
SCALE: 1" = 700'
SOURCE: MODIFIED FROM E & E 1991, AND USGS, MEDINA, OHIO, QUADRANGLE, 1984
BOHATY DRUM SITE
MEDINA COUNTY, OHIO
ATTACHMENT B
MAY 14, 1992
SOIL SAMPLING LOCATIONS
PRC ENVIRONMENTAL MANAGEMENT, INC.
BOHATYAB.DWG - 05/12/94 - RAO - 030-002978D

NPL Characteristics Data Collection Form
(Version 2.0, October 1992)

Site Name: Bohaty Drum Site
Region: 5 State: Ohio

This form should be completed for all sites being proposed for addition to the NPL and included as part of the complete HRS package submitted to EPA Headquarters.

Office of Emergency and Remedial Response
U.S. Environmental Protection Agency

EPA

1. Basic Identifying Information

1.1 Site Name (as entered in CERCLIS): Bohaty Drum Site

1.2 CERCLIS ID Number: OHD 987 033 743

1.3 Name of Person(s) Completing Form: Kristine Kruk

Affiliation (agency/company): PRC Environmental Management, Inc.

Phone Number: (312) 856-8700

1.4 Date Form Was Completed: 09 / 19 / 94 (mm/dd/yy)

1.5 Site Location: City Medina State Ohio

County Medina Zip Code 44256

1.6 Site Coordinates (in degrees, minutes, seconds, and tenths of seconds):

41 ° 09 ' 32.0 " N. Latitude 81 ° 51 ' 41.0 " W. Longitude

If tenths of seconds are unknown, use "0" as a default value. If necessary, refer to Appendix E of EPA's 1991 PA guidance document for directions on how to determine coordinates.

1.7 **ATSDR HEALTH ADVISORY.** Has an Agency for Toxic Substances and Disease Registry (ATSDR) Health Advisory been issued?

☐ Yes ■ No

If yes, what was the date of issue? / / (mm/dd/yy)

1.8 **HOW INITIALLY IDENTIFIED.** How was the site initially identified to EPA? If this information is not available in the HRS scoring package, check the PA narrative or other parts of the site file. (check one)

☐ Citizen complaint (including PA petition)
☐ State/local program
☐ CERCLA notification
☐ RCRA notification
☐ Other Federal program (specify)
☐ Incidental (e.g., identified while discovering/investigating another NPL site)
☐ Anonymous
■ Other (specify) Medina Township Fire Department notified Ohio EPA
☐ Unknown

1.9 **UNKNOWN SOURCE.** Does the site consist exclusively of contaminated groundwater or contaminated surface water sediments with *no identifiable primary source(s)*? (check one)

☐ Yes, groundwater plume(s)
☐ Yes, surface water sediments
■ No

STOP HERE. If answer to question #1.9 is "Yes," proceed to Appendix A and complete the Supplemental Data Collection Form, then *return* to Section 6 (page 9) of this form. If answer in "No," continue to Section 2 of this form.

2. General Site Description

2.1 **SETTING.** What is the site setting? (check one)

- ☐ Large city: within boundaries of a city with a population ≥ 100,000
- ☐ Small city/town: within boundaries of a city/town with a population ≥ 10,000 and < 100,000
- ■ Suburban: within immediate suburbs of a city
- ☐ Rural: outside of city and suburban areas

2.2 **LAND USE.** What is the current land use(s) within 1 mile of the site? (check all that apply)

- ☐ Industrial
- ■ Commercial
- ■ Residential
- ☐ Agricultural
- ■ Forest/fields/wetlands/other undeveloped
- ■ Parks/recreation
- ■ School/university/day care
- ☐ Military
- ☐ Other (specify) _____

If *readily available information* indicates that projected future land use(s) within 1 mile of the site may *differ* from the current use(s) checked above (e.g., building a mobile home park or other new residential area adjacent to a former landfill), write them in the blank that follows. Use the response options listed above if possible.

_____

_____

_____

2.3 **AREA.** What is the approximate area of contamination (i.e., total area that includes all sources of contamination and other areas where contamination has come to be located, plus the area between the sources)? If the site is large with only a small contaminated portion, only the area of the contaminated portion should be estimated. If the approximate area of contamination cannot be estimated, use the area within the property boundary. (check one)

- ☐ ≤ 5 acres
- ■ > 5 and ≤ 20 acres
- ☐ > 20 and ≤ 100 acres
- ☐ > 100 acres
- ☐ Unknown

2.4 **OWNER AND OPERATOR.** What/who are the current owner(s) and operator(s) of the site, and who were the owner(s) and operator(s) at the time of principal contamination? If the owner and operator are the same, then check the same box under "Owner(s)" and "Operator(s)." If the current owner and/or operator and the owner and/or operator at time of principal contamination are the same, then check the same box under "CURRENT" and "AT TIME OF CONTAMINATION." (check all that apply, including at least one in each column; "NA" indicates that a response is not applicable)

CURRENT			AT TIME OF CONTAMINATION	
Owner(s)	Operator(s)		Owner(s)	Operator(s)
☐	☐	Private - industrial/commercial	☐	☐
■	■	Private - small business	■	■
■	■	Private - individual	■	■
☐	☐	County/city	☐	☐
☐	☐	State	☐	☐
☐	☐	Federal	☐	☐
☐	☐	Indian lands	☐	☐
☐	☐	Bankruptcy/receivership	NA	NA
NA	☐	None/currently inactive or abandoned	NA	NA
NA	☐	None/spill or other one-time event	NA	☐
☐	NA	Other (specify)	NA	NA
NA	☐	Other (specify)	NA	NA
NA	NA	Other (specify)	☐	NA
NA	NA	Other (specify)	NA	☐
NA	NA	Unknown	☐	NA
NA	NA	Unknown	NA	☐

2.5 **SPILL/OTHER ONE-TIME EVENT.** Is this site the result of a one-time spill (e.g., truck, rail car, or barge accident) or other one-time event (e.g., one-time illegal dumping), with no other ongoing waste management or waste generation activities on site? (check one)

☐ Yes, specify year of spill/other one-time event _____
■ No

If answer is "Yes" to this question, proceed to Section 3. If answer is "No," continue to question #2.6.

2.6 **YEARS OF OPERATION.** What are the beginning and ending years of operation at the site? "Operation" includes any activity occurring at the site (other than site remediation and related site investigation activity), and does *not* necessarily have to involve waste generation and/or management. Aggregated sites that have a combination of active and inactive/abandoned operations, and active sites that have had periods of inoperation during the existence, should be considered currently operating. For these sites, indicate the beginning year of their earliest operation. If sites such as this are no longer operating, indicate the beginning year of their earliest operation and the ending year of their latest operation. (check one)

■ Currently operating: from (beginning year) 1920
☐ Inactive or abandoned: from (beginning year) _____ to (ending year) _____
☐ Unknown (only if *no* historical information is available)

2.7 **YEARS OF WASTE MANAGEMENT ACTIVITIES.** What are the beginning and ending years of waste management at the site? Applicable waste management activities include generation, treatment, and/or recycling of waste containing hazardous substances and/or receipt of such wastes from off-site sources. Aggregated sites that have a combination of active and inactive/abandoned waste management activities, and sites that are actively managing waste that have had periods without waste management activities during their existence, should be considered currently managing waste. For these sites, indicate the beginning year of their earliest waste management activity. If sites such as this are no longer managing waste, indicate the beginning year of their earliest activity and the ending year of their latest activity. All responses should be consistent with responses given for question #2.6. (check one)

☐ Currently managing waste: from (beginning year) _____
■ No longer managing waste: from (beginning year) 1963 to (ending year) early 1980s
☐ Unknown (only if *no* historical information is available)

3. Site Type

3.1 **SITE ACTIVITIES.** Which of the following best describe current activities/operations/conditions at the site (i.e., on-site activities)? Also, identify all former activities that are at least partly responsible for the principal contamination at the site. Check all responses that apply, including at least one in each column; if a primary item is checked, at least one sub-item also must be checked (e.g., if "Federal facility" is checked, a sub-item such as "DOD" also must be checked).

Current	Former	
☐	☐	Federal facility (must also indicate Federal in question #2.4)
☐	☐	DOD
☐	☐	DOE
☐	☐	DOI (e.g., Bureau of Land Management)
☐	☐	USDA (e.g., Forest Service)
☐	☐	Other (specify) _____
☐	☐	Manufacturing/processing
☐	☐	Chemicals and allied products
☐	☐	Pesticides
☐	☐	Other (specify) _____
☐	☐	Primary metals/mineral processing
☐	☐	Petroleum refining
☐	☐	Metal fabrication/finishing/coating and allied industries
☐	☐	Lumber and wood products/pulp and paper
☐	☐	Wood preserving/treatment
☐	☐	Other (specify) _____
☐	☐	Plastic and rubber products
☐	☐	Electronic/electrical equipment
☐	☐	Electric power generation and distribution
☐	☐	Other (specify) _____
☐	☐	Mining
☐	☐	Coal
☐	☐	Oil and gas
☐	☐	Metals
☐	☐	Non-metal minerals
☐	☐	Other _____

(response options for question #3.1 continue on next page)

Current	Former	
☐	■	Waste management as *principal* activity (i.e., no manufacturing or other principal activity)
☐	☐	Municipal solid waste landfill
☐	☐	RCRA Subtitle C TSDF (non-generator)
☐	☐	Other industrial waste facility, including landfill (non-generator)
☐	☐	Radioactive waste treatment, storage, disposal (non-generator)
☐	☐	Recycling
☐	☐	Batteries
☐	☐	Used/waste oil
☐	☐	Automobiles/scrap metal/tires
☐	■	Drums
☐	☐	Chemicals/chemical wastes (e.g., solvent recovery)
☐	☐	Other (specify) _____
☐	☐	Publicly owned treatment works/septic tanks/other sewage treatment)
☐	■	Illegal/open dump
☐	☐	Other (specify) _____
☐	☐	Transportation (e.g., railroad yard, airport, barge docking site)
☐	☐	Product storage/distribution as *principal* activity
☐	☐	Retail/commercial
☐	☐	Agricultural
☐	NA	Residential
☐	NA	None/currently inactive or abandoned
NA	☐	Spill or other one-time event, with no other activities (must also indicate spill in question #2.5)
■	☐	Other (specify) Farm equipment repair and sales

3.2 **WASTE TREATMENT, STORAGE, AND DISPOSAL ACTIVITIES.** What treatment, storage, and/or disposal activities occur/occurred at the site? (check all that apply)

- ☐ Municipal landfill (must also indicate municipal solid waste landfill in question #3.1)
- ☐ Industrial landfill
- ☐ Surface impoundment (primarily liquid)
- ☐ Waste pile (primarily solid, covered or uncovered)
- ☐ Drum/container storage (intentional storage in specified areas)
- ☐ Tank - above ground (if tank type is unknown check here)
- ☐ Tank - below ground
- ☐ Discharge to sewer/surface water (intentional permitted or illegal discharge; *not* secondary runoff)
- ☐ Recycling (must also indicate recycling in questions #3.1)
- ☐ Incineration/other combustion activity (including burn pit)
- ☐ Underground injection well
- ☐ Land application/treatment
- ☐ Drain/leach field
- ■ Illegal dumping (unpermitted dumping by site owner/operator in undesignated disposal area)
- ■ Unauthorized dumping by a party other than the site owner/operator
- ☐ None/spill or other one-time event (must also indicate spill in questions #2.5)
- ☐ Other (specify) _____

4. Waste Description

4.1 **ON-SITE/OFF-SITE GENERATION.** Is an on-site or off-site generator responsible for the waste disposed or deposited on site that resulted in the principal contamination? For consistency, recycling facilities should be considered on-site generators. (check one)

- ☐ On-site generator only
- ■ Off-site generator(s) only
- ☐ Both on-site and off-site generators

4.2 **ENTITY THAT GENERATED THE WASTE.** What is the source(s) of the waste disposed or deposited on site that resulted in the principal contamination (*not* necessarily the entity that generated the original product)? Note that this questions is different from question #3.1 regarding site activities, although the response options are similar. This question targets the generator(s) of the waste present on site, not the site activities. However, if the waste is/was generated entirely on site, then the response(s) to this question should match the response(s) to question #3.1. (check all that apply)

- ☐ Federal facility
  - ☐ DOD
  - ☐ DOE
  - ☐ DOI
  - ☐ USDA
  - ☐ Other (specify) _____
- ■ Manufacturing/processing
  - ■ Chemicals and allied products
    - ■ Pesticides
    - ☐ Other (specify) _____
  - ■ Primary metals/mineral processing
  - ■ Petroleum refining
  - ■ Metal fabrication/finishing/coating and allied industries
  - ☐ Lumber and wood products/pulp and paper
    - ☐ Wood preserving/treatment
    - ☐ Other (specify) _____
  - ■ Plastic and rubber products
  - ☐ Electronic/electrical equipment
  - ☐ Electric power generation and distribution
  - ☐ Other (specify) _____
- ☐ Mining
  - ☐ Coal
  - ☐ Oil and gas
  - ☐ Metals
  - ☐ Non-metal minerals
  - ☐ Other _____
- ☐ Recycling
  - ☐ Batteries
  - ☐ Used/waste oil
  - ☐ Automobile junkyard/scrap metal/tires
  - ☐ Drums
  - ☐ Chemicals/chemical wastes (e.g., solvent recovery)
  - ☐ Other (specify) _____

(response options for question #4.2 continue on next page)

- ☐ Transportation (e.g., railroad yard, airport, barge docking site)
- ☐ Product storage/distribution facility
- ☐ Retail/commercial
- ☐ Agricultural
- ☐ Residential
- ☐ Laboratory/hospital
- ☐ Construction/demolition
- ☐ Site remediation (e.g., wastes from site cleanups)
- ☐ Waste management (e.g., leachate or ash from waste treatment processes)
- ☐ Other (specify) _____

4.3 **PHYSICAL STATE OF WASTE.** What is the physical state(s) of the hazardous substance-containing waste(s) deposited or detected on site? (check all that apply)

- ■ Solid
- ■ Liquid
- ■ Sludge
- ☐ Gas

4.4 **GENERAL WASTE TYPES.** What are the waste types deposited or detected on site? Indicate all the waste types present on site under "Overall." If three or fewer waste types are known to comprise the majority (i.e., over 50%) of the waste volume on site, indicate their types under "Predominant." Otherwise, leave the "Predominant" column blank. (check all that apply)

Overall	Predominant	
☐	☐	Organic chemicals
■	☐	Metals
☐	☐	Non-metal inorganic chemicals
☐	☐	Strong acids/bases
■	☐	Chlorinated solvents
■	☐	Pesticides
■	☐	Paints/pigments
■	☐	Oily wastes
☐	☐	Explosives
☐	☐	Fuels/propellants
☐	☐	Fly and bottom ash
☐	☐	POTW sludge
☐	☐	Still and tank bottoms
■	☐	Contaminated soil/sediment
☐	☐	Radioactive wastes
☐	☐	Other (specify) _____

4.5 **SPECIFIC WASTE CONSTITUENTS.** Which of the following waste constituents have been deposited or detected on site? (check all that apply, and make sure that response is consistent with response to question #4.4)

- ☐ Asbestos
- ☐ Creosote
- ☐ Cyanides
- ☐ Dioxins (e.g., TCDD)
- ☐ Lead
- ☐ Pentachlorophenol (PCP)
- ■ Polychlorinated biphenyls (PCBs)
- ■ Polycyclic aromatic hydrocarbons (PAHs)
- ☐ None of the above

4.6 **QUANTITY OF WASTE.** What is the highest HRS hazardous waste quantity factor value among the pathways scored, regardless of which tier(s) (A, B, C, and/or D) was used in scoring? (check one)

- ☐ 1
- ☐ 10
- ■ 100
- ☐ 10,000
- ☐ 1,000,000

4.7 **WASTE ACCESSIBILITY.** Is the waste on site currently accessible to the public (e.g., is site access unrestricted so people can potentially come into direct contact with contaminated materials)? Items to be considered when judging accessibility include, for example, presence or absence of a complete cover over the waste area and a secure fence around the site. A site with natural access restrictions (e.g., steep terrain) also can be considered inaccessible. Do not count on-site workers as part of the public when answering this question. (check one)

- ■ Yes
- ☐ No
- ☐ Unknown

5. Demographics

For this section, do not directly use the population factor values calculated in the HRS and entered in HRS scoresheets. Use actual (i.e., unweighted, unadjusted) population figures, which should be available in the HRS supporting documentation

5.1 **NUMBER OF WORKERS ON SITE.** What is the current number of workers present on site (not including workers involved in response activities)? (check one)

- ☐ 0
- ■ ≥ 1 and ≤ 10
- ☐ ≥ 11 and ≤ 100
- ☐ ≥ 101 and ≤ 1,000
- ☐ > 1,000
- ☐ Unknown

5.2 **DISTANCE TO POPULATION.** What is the shortest distance from any source or area of contamination at the site to the nearest residential individual (include all persons occupying homes, apartments, businesses, or schools)? If contamination has migrated off site onto the property of a nearby resident(s), then check the box next to "0 miles." If the source or contaminated area is not clearly identified, use distance from the site property boundary. (check one)

- ☐ 0 mile (i.e., on site)
- ■ > 0 and ≤ 1/4 mile
- ☐ > 1/4 and ≤ 1/2 mile
- ☐ > 1/2 and ≤ 1 mile
- ☐ > 1 and ≤ 4 miles
- ☐ > 4 miles

5.3 **POPULATION.** What is the total residential population within 1 mile and 4 miles of the site (include all persons occupying homes, apartments, businesses, or schools)? (check one in each column)

Within 1 mile	Within 4 miles	
☐	☐	0
☐	☐	> 0 and ≤ 10
☐	☐	> 10 and ≤ 100
☐	☐	> 100 and ≤ 1,000
■	☐	> 1,000 and ≤ 10,000
☐	☐	> 10,000 and ≤ 100,000
☐	☐	> 100,000
☐	■	Unknown

6. Water Use

For purposes of this section, "local" refers to groundwater withdrawals within 4 miles and surface water withdrawals within 15 "in-water" miles (e.g., downstream miles for streams and rivers) of the site (i.e., within HRS target distance limits).

6.1 **TOTAL DRINKING WATER POPULATION SERVED.** What is the total population served by local ground and surface water sources of drinking water? Use actual population numbers and not adjusted values taken directly from HRS scoresheets. For blended systems, use total population served instead of prorated values. Note that the total population served does not have to reside within the HRS target distance limits, only the drinking water supply withdrawal point(s) needs to be within the limits. (check one in each column)

Ground	Surface	
☐	☐	≤ 10
☐	☐	> 10 and ≤ 100
☐	☐	> 100 and ≤ 1,000
☐	☐	> 1,000 and ≤ 10,000
■	■	> 10,000 and ≤ 100,000
☐	☐	> 100,000
☐	☐	Not applicable (no drinking water withdrawals within HRS target distance limits)

6.2 **TYPE OF DRINKING WATER SUPPLY SYSTEM.** What type(s) of local drinking water supply system(s) is present? "Public" should be checked for any central water supply system, even if operated by a private entity. (check all that apply)

Ground	Surface	
■	■	Public (serves over 25 people; e.g., municipal systems)
■	☐	Private (e.g., individual wells)
☐	☐	Unknown
☐	☐	Not applicable (no drinking water withdrawals within HRS target distance limits)

6.3 **OTHER GROUNDWATER USES.** What are the other uses of groundwater withdrawn within 4 miles of the site? (check all that apply)

- ☐ Irrigation
- ☐ Stock watering
- ☐ Commercial uses (e.g., food preparation, aquaculture)
- ☐ Industrial process/cooling
- ■ Recreation (e.g., water supply for municipal swimming pool, infiltration into lakes used for recreation)
- ☐ Other (specify) _____
- ☐ None
- ☐ Unknown

6.4 **DEPTH TO AQUIFER.** What is the approximate depth from the ground surface to the uppermost usable aquifer (i.e., an aquifer having sufficient yield and water quality to be usable as drinking water or for other beneficial uses) beneath the site? (check one)

- ☐ ≤ 10 feet
- ■ > 10 and ≤ 25 feet
- ☐ > 25 and ≤ 50 feet
- ☐ > 50 and ≤ 100 feet
- ☐ > 100 feet
- ☐ Unknown

6.5 **OTHER SURFACE WATER USES.** What are the other uses of surface water withdrawn within 15 "in-water" miles of the site? (check all that apply)

- ☐ Not currently used, but designated by the state for potential drinking water use
- ■ Recreational fishing
- ■ Other recreation
- ☐ Irrigation
- ☐ Stock watering
- ☐ Industrial process/cooling
- ☐ Commercial fishery, including aquaculture
- ☐ Other commercial uses
- ☐ Other (specify) _____
- ☐ None
- ☐ Unknown

6.6 **TYPE OF SURFACE WATER ADJACENT TO/DRAINING SITE.** What are the type(s) of surface water adjacent to/draining the site that could potentially be affected by overland runoff from the site (i.e., are within 2 miles of any source)? Indicate whether the water body is known or suspected of being contaminated by the site. "Yes" would indicate that the surface water body meets the HRS criteria for observed release. "Suspected" would indicate that there is some evidence of contamination that is attributable to the site, but the surface water body does not meet the HRS criteria for observed release. (check all that apply)

	Contaminated?
■ Intermittent stream	☐ Yes ☐ Suspected ■ No ☐ Unknown
■ Perennial stream	☐ Yes ☐ Suspected ■ No ☐ Unknown
■ River (> 1,000 cfs annual avg. flow)	☐ Yes ☐ Suspected ☐ No ■ Unknown
■ Lake/reservoir	☐ Yes ☐ Suspected ■ No ☐ Unknown
■ Pond	■ Yes ☐ Suspected ☐ No ☐ Unknown
☐ Bay	☐ Yes ☐ Suspected ☐ No ☐ Unknown
☐ Ocean	☐ Yes ☐ Suspected ☐ No ☐ Unknown
☐ Drainage ditch	☐ Yes ☐ Suspected ☐ No ☐ Unknown
☐ Canal	☐ Yes ☐ Suspected ☐ No ☐ Unknown
☐ Other (specify) _____	☐ Yes ☐ Suspected ☐ No ☐ Unknown
☐ No surface water within 2 miles	☐ Yes ☐ Suspected ☐ No ☐ Unknown
☐ Unknown	☐ Yes ☐ Suspected ☐ No ☐ Unknown

7. Sensitive Environment and Reported Environmental Damage Information

7.1 **EXISTENCE OF SENSITIVE OR POTENTIALLY VULNERABLE ENVIRONMENT.** Is the site in or near (i.e., within a 4-mile radial distance, or for surface water within 15 "in-water" miles) an HRS-designated sensitive environment(s) or other potentially vulnerable environment(s)? (check all that apply)

- ■ Yes, HRS-designated sensitive environment(s)
  - ■ Wetland
  - ☐ Habitat used by Federal or state designated endangered or threatened species
  - ☐ Other (specify) _____
- ☐ Yes, other potentially vulnerable environment(s) (see Appendix B for definitions)
  - ☐ Karst terrain
  - ☐ Seismic impact area
  - ☐ 100-year floodplain
  - ☐ Unstable terrain
  - ☐ Vulnerable groundwater (class I, as defined by EPA)
  - ☐ Wellhead protection area
  - ☐ Other (specify) _____
- ☐ No
- ☐ Unknown

7.2 **HUMAN HEALTH/BIOLOGICAL IMPACTS.** Have human health or biological impacts attributable to the site been reported or observed? (check all that apply)

- ☐ Yes
  - ☐ Human health
  - ☐ Flora (e.g., stressed vegetation)
  - ☐ Fauna (e.g., fish kills, wildlife impacts)
- ☐ No
- ■ Unknown

8. Response Actions

8.1 **TYPE OF RESPONSE ACTION.** What type(s) of response actions has already occurred at or near the site? (check all that apply)

- ■ Action has been taken to reduce an immediate threat of fire or explosion
- ■ Waste has been physically removed from the site
- ☐ Waste has been treated/stabilized/contained on site
- ☐ Site access has been restricted in response to the contamination
- ☐ Drinking water well(s) has been closed (on or off site)
- ☐ Alternate water supply(ies) has been provided (on or off site)
- ☐ Residents have been relocated
- ☐ Other (specify) _____
- ☐ None

8.2 **AUTHORITY RESPONSIBLE FOR RESPONSE ACTION.** Who performed (or contracted for) the response action(s)? (check all that apply)

- ■ EPA under authority of CERCLA
- ☐ EPA under other authority
- ☐ Other Federal agency (specify) _____
- ☐ State/local authority
- ☐ Private party
- ☐ Other (specify) _____
- ☐ Not applicable (check only if checked "None" in question #8.1)

STOP HERE. Section 9 will be completed by a Headq[illegible]rs QA reviewer.

REVIEW OF COMPLETED FORM. When you have completed Sections 1 th[illegible]gh 8 of the NPL Characteristics Data Collection Form, please check to *make sure* that:

(1) All questions are answered, except for ones that you were specifically directed to skip; and

(2) All questions have been answered such that the responses are internally consistent, especially those in Sections 2 and 3. For example, if the site is the result of a spill or other one-time event, the responses for questions #2.4, #2.5, #3.1, and #3.2 should be consistent, while if the site is inactive or abandoned, the responses for questions #2.4, #2.6, #2.7, and #3.1 should be consistent.

9. Questions to be Completed by Headquarters QA Reviewer

9.1 Name of QA Reviewer: _____

Affiliation (agency/company): _____

Phone Number: (_____) _____

9.2 Date QA Completed For This Form: _____/_____/_____ (mm/dd/yy)

9.3 NPL Proposed Rule Number (i.e., NPL "Update" number): _____

9.4 U.S. Congressional District Number: _____

9.5 **DISCOVERY DATE.** What is the date the EPA Region was notified of the hazardous waste release/site? (should match site assessment CERCLIS information) If the day and/or month is unknown use "01" as a default value for these entries.

_____/_____/_____ (mm/dd/yy)

9.6 **DATE OF PRELIMINARY ASSESSMENT (PA).** What is the date of the PA? (should match site assessment CERCLIS information) If the day and/or month is unknown use "01" as a default value for these entries.

_____/_____/_____ (mm/dd/yy)

9.7 **DATE OF SITE INVESTIGATION (SI).** What is the date of the SI? (should match site assessment CERCLIS information) If the day and/or month is unknown use "01" as a default value for these entries.

_____/_____/_____ (mm/dd/yy)

9.8 **RCRA SUBTITLE C STATUS.** What is the RCRA Subtitle C status of the site? (check all that apply)

- ☐ RCRA Subtitle C TSDF(s) that meets listing policy
  - ☐ Bankrupt
  - ☐ Loss of interim status facility (LOIS)
  - ☐ Non-filer or late filer
  - ☐ Pre-HSWA permittee
  - ☐ Protective filer
  - ☐ Converter
- ☐ Large quantity hazardous waste generator
- ☐ Small quantity hazardous waste generator
- ☐ Not applicable (e.g., non-generator or very small quantity generator)

9.9 **HRS SCORE.** What is the HRS site score (as proposed)? _____

9.10 **HRS PATHWAYS SCORED.** Which HRS pathways were scored, and for which pathways has observed release/contamination been documented? (check all that apply and provide score, as proposed)

	Pathways Scored	Score	Observed Release/ Contamination
☐	Groundwater	_____	☐
☐	Surface water (overland/flood)	_____	☐
	☐ Drinking water threat	_____	
	☐ Human food chain threat	_____	
	☐ Environmental threat	_____	
☐	Surface (groundwater to surface water)	_____	☐
	☐ Drinking water threat	_____	
	☐ Human food chain threat	_____	
	☐ Environmental threat	_____	
☐	Soil exposure	_____	☐
	☐ Residential population threat	_____	
	☐ Nearby population threat	_____	
☐	Air	_____	☐
☐	None (ATSDR or state top priority site)	_____	